

No.

7100042

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

McNair Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'McNair 800'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 25th day of April in the year of our Lord one thousand nine hundred and seventy-four

Attest:

J. J. Rollin

Commissioner
Plant Variety Protection Office
Ceres Division
Agricultural Marketing Service

Earl L. Butz

Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION McNair 800	2. KIND NAME Soybeans	FOR OFFICIAL USE ONLY PV NUMBER 7142	
3. GENUS AND SPECIES NAME Glycine max (L.) merrill	4. FAMILY NAME (Botanical) Leguminosae	FILING DATE 3-22-71	TIME 3:30 P.M.
	5. DATE OF DETERMINATION 1966	FEE RECEIVED \$ 250	BALANCE DUE \$ -
		\$ 250	\$ -
		\$ 250	\$ -
6. NAME OF APPLICANT(S) McNair Seed Company	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 706 Laurinburg, N. C. 28352		8. TELEPHONE AREA CODE AND NUMBER 919 276-0733
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation	10. STATE OF INCORPORATION North Carolina		11. DATE OF INCORPORATION 11-1-47
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:			

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Botanical Description of the Variety
- ☒ 13C. Exhibit C, Objective Description of the Variety
- ☒ 13D. Exhibit D, Data Indicative of Novelty
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☒ YES ☐ NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☒ YES ☐ NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

McNAIR SEED COMPANY

February 28, 1973

(DATE)

By S. Gregory Brown Jr.

President

(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: **Send** an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Insert **the date** the applicant determined that he had-a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate **the differences**.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

12A. Exhibit A, Origin and Breeding History of the Variety

McNair 800 resulted from a cross of Roanoke X (Ogden X CNS). The resulting material was maintained as a bulk hybrid through the F_4 generation. Selections were made of single F_5 plants and evaluated on a plant to row basis. After two years of testing, two lines that were agronomically similar were bulked and named McNair 800. Subsequently, the variety has been maintained by careful selection of progeny rows from at least five hundred individual plants selected at random from the breeder seedblock. Seed from the progeny rows that were judged to be true to variety were bulked and increased as breeder seed.

During the initial testing and seed increases, this variety has exhibited a tall viny variant that occurred at the rate of one per thousand plants. However, it is possible that this variant has been removed by careful roguing in 1970.

12B. Exhibit B, Botanical Description of the Variety

McNair 800 is a distinctive soybean variety characterized by white flowers and gray pubescence. It has small seed of very good quality with buff hyla and yellow seed coat. The seedlings are somewhat compact and bunchy in contrast with other soybean varieties which tend to be more upright.

The mature McNair 800 soybean is on the average about 5 inches shorter than the variety Bragg when grown under the same conditions. It has more lateral branches than Bragg and does not have the upright stature of Bragg.

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

McNair Seed Company

ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)

P. O. Box 706

Laurinburg, N. C. 28352

FOR OFFICIAL USE ONLY

PVPO NUMBER

7142

VARIETY NAME OR TEMPORARY
DESIGNATION

McNair 800

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE:

 1 = SPHERICAL 2 = SPHERICAL
FLATTENED 3 = ELONGATE 4 = OTHER (Specify)

2. SEED COAT COLOR:

 1 = YELLOW 2 = GREEN 3 = BROWN 4 = BLACK
5 = OTHER (Specify)

SHADE:

 1 = LIGHT 2 = MEDIUM 3 = DARK

3. SEED COAT LUSTER:

 1 = DULL 2 = SHINY

4. SEED SIZE

 GRAMS PER 100 SEEDS

5. HILUM COLOR:

 1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY 5 = IMPERFECT
BLACK 6 = BLACK 7 = OTHER (Specify)

SHADE:

 1 = LIGHT 2 = MEDIUM 3 = DARK

6. COTYLEDON COLOR:

 1 = YELLOW 2 = GREEN

7. LEAFLET SIZE (See Reverse):

 1 = SMALL 2 = MEDIUM 3 = LARGE

8. LEAFLET SHAPE:

 1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTICAL 5 = OTHER (Specify)

9. LEAF COLOR (See reverse):

 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN

10. FLOWER COLOR:

 1 = WHITE 2 = PURPLE
3 = OTHER (Specify)

11. POD COLOR:

 1 = TAN 2 = BROWN 3 = BLACK

12. POD SET:

 1 = SCATTERED 2 = CONCENTRATED

13. PLANT PUBESCENCE COLOR:

 1 = GRAY 2 = BROWN 3 = OTHER (Specify)

SHADE:

 1 = LIGHT 2 = MEDIUM 3 = DARK

14. PLANT TYPES (See Reverse):

 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE

15. PLANT HABIT:

 1 = DETERMINATE 2 = INDETERMINATE
3 = OTHER (Specify)

16. HYPOCOTYL COLOR:

 1 = GREEN 2 = PURPLE

17. SEED PROTEIN:

 1 = A 2 = B18. NUMBER OF DAYS TO FLOWERING
(Place a zero in first box (e.g.) when
days are 9 or less.)

19. MATURITY GROUP:

 1 = 00 2 = 0 3 = I 4 = II 5 = III
6 = IV 7 = V 8 = VI 9 = VII 10 = VIII20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box
(e.g.) when size is 9 mm. or less.) MM. LENGTH
OF SEEDLING MM. LENGTH
OF COTYLEDON MM. WIDTH
OF COTYLEDON

21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

 BACTERIAL
PUSTULE SOYBEAN
CYST DOWNY
MILDEW PURPLE
STAIN POD AND
STEM BLIGHT ROOT
KNOT FROGEYE STEM
CANKER PHYTO-
PHTHORA BROWN
STEM ROT TARGET
SPOT BROWN
SPOT BUD
BLIGHT WILDFIRE RHIZOCTONIA
ROT OTHER (Specify)

4066

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape		Petiole angle	
Leaf shape	Bragg	Seed size	Pickitt 71
Leaf color	Bragg	Seed shape	
Leaf surface		Seedling pigmentation	

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	160	1.9	96 cm	6.0cm	10.9cm		21.1 %		
Name of similar variety	Bragg	Davis	Ransom				Lee		

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

REVISED
RJS

EXHIBIT D

Application No. 7142

Soybean McNair 800

Novelty is based on the unique combination of the following characters.

The appearance of McNair 800 at maturity is very much like that of Davis. Seed of McNair 800 and Davis are indistinguishable with the exception of size. McNair 800 differs from Davis in the following traits: (1) 2 grams lower seed index, (2) an average of 5 cm shorter, (3) has much more lateral branching during the first few weeks of growth. This characteristic could be used to identify McNair 800 during the 3 to 8 week stage of growth, (4) matures 4 days later and (5) does not have resistance to Phytophthora rot.

12E. Exhibit E, Statement of the Basis of Applicant's Ownership.

McNair 800 soybeans are the property of McNair Seed Company as the breeders, Dr. John M. Green and David L. Burns, were employees of this company at the time this variety was developed.